CLAIMS

What is claimed is:

- 1. A method for preparing a hydroxyalkyl tropane ester, comprising:
- (a) contacting a tropane and 1,1'-carbonyldiimidazole to produce an activated tropane ester;
- (b) contacting the activated tropane ester with an excess of an alkanediol to form a reaction mixture; and
- (c) maintaining the reaction mixture at a temperature and for a sufficient time for the activated tropane ester to react with the alkanediol to form the corresponding hydroxyalkyl tropane ester.
- 2. The method according to claim 1, wherein the alkanediol is 1,2-propanediol.
 - 3. The method according to claim 1, wherein the tropane is ecgonidine.
- 4. The method according to claim 3, wherein reaction of step (b) is carried out in dry DMF.
- 5. The method according to claim 3, wherein the excess of alkanediol is at least about 2 equivalents of alkanediol to 1 equivalent of tropane.
- 6. The method according to claim 3, wherein the reaction of step (b) is carried out under an inert gas.
 - 7. The method according to claim 6, wherein the inert gas is nitrogen.
 - 8. The method according to claim 1, wherein the tropane is ecgonine.
- 9. The method according to claim 7, wherein reaction of step (b) is carried out in dry DMF.

- 10. The method according to claim 7, wherein the excess of alkanediol is at least about 2 equivalents of alkanediol to 1 equivalent of tropane.
- 11. The method according to claim 7, wherein the reaction of step (b) is carried out under an inert gas.
 - 12. The method according to claim 11, wherein the inert gas is nitrogen.
- 13. The method according to claim 1, wherein the tropane is benzoylecgonine.
- 14. The method according to claim 13, wherein reaction of step (b) is carried out in methylene chloride.
- 15. The method according to claim 13, wherein the excess of alkanediol is at least about 2 equivalents of alkanediol to 1 equivalent of tropane.
- 16. The method according to claim 1, further comprising the step of isolating the hydroxyalkyl tropane ester from the reaction mixture.
- 17. The method according to claim 16, wherein the isolation is performed by extraction.
- 18. The method according to claim 16, further comprising the step of purifying the isolated hydroxyalkyl tropane ester.
- 19. The method according to claim 18, wherein the purification is performed by column chromatography.